## Ashland Chemical Company Dom

DIVISION OF ASHLAND OIL, INC. P. O. BOX 2219, COLUMBUS, OHIO 43216 • (614) 889-3333

*Ashland*®

Comment

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MATERIAL SAFETY DATA SHEET

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HETRON 92

THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (THE HAZARD COMMUNICATION STANDARD)

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Jakobski.

PRODUCT NAME: HETRON 92 05 86 091 5120335-982 DATA SHEET NO: 0027074-003 LATEST REVISION DATE: 03/86-86063 PRODUCT: INVOICE: REQST INVOICE DATE: 09/15/86 TO: DOUGLAS AIRCRAFT COMPANY ATTN: MYA INTERNAL MAIL CODE 126-14 3855 LAKEWOOD BLVD. LONG BEACH, CA 90846 SECTION I-PRODUCT IDENTIFICATION GENERAL OR GENERIC ID: UNSATURATED POLYESTER RESIN DOT HAZARD CLASSIFICATION: FLAMMABLE LIQUID (173.115) SECTION II-COMPONENTS INGREDIENT % (BY WT) PEL TLV 25-30 100 50 STYRENE Cas #: 100~42-5 ( 1); ACGIH - SHORT TERM EXPOSURE LIMIT (STEL) FOR STYRENE MONOMER IS 100 PPM. THE OSHA ACCEPTABLE CEILING CONCENTRATION IS 200 PPM, THE ACCEPTABLE MAXIMUM PEAK ABOVE THE ACCEPTANCE CEILING CONCENTRATION FOR AN 8-HOUR SHIFT IS 600 PPM FOR A MAXIMUM DURATION OF 5 MINUTES IN ANY 3 HOURS, NIOSH RECOMMENDS A LIMIT OF 5 PPM, 8-HOUR TWA; 100 PPM 15 MINUTE CEILING. SECTION III-PHYSICAL DATA REFINEMENT 293.40 DEG F 145.22 DEG C) 760.00 MMHG FOR COMPONENT (25-30 BOILING POINT 20 FOR COMPONENT( 25-30%) 5.00 MMHG VAPOR PRESSURE DEG F DEG C) 20.00 HEAVIER THAN AIR SPECIFIC VAPOR DENSITY 1.344 77.00 25.00 SPECIFIC GRAVITY 1,320 -DEG F PERCENT VOLATILES 30-35% SLOWER THAN ETHER EVAPORATION RATE SECTION IV-FIRE AND EXPLOSION INFORMATION 73-100 DEG F 23-28 DEG C) FLASH POINT EXPLOSIVE LIMIT (LOWEST VALUE OF COMPONENT) LOWER -EXTINGUISHING MEDIA: REGULAR FOAM OR WATER FOG OR CARBON DIOXIDE OR DRY CHEMICAL HAZARDOUS DECOMPOSITION PRODUCTS, MAY FORM TOXIC MATERIALS:, CARBON DIOXIDE AND CARBON MONOXIDE, HYDROGEN CHLORIDE, PHOSGENE FIREFIGHTING PROCEDURES; WATER OR FOAM MAY CAUSE FROTHING WHICH CAN BE VIOLENT AND POSSIBLY ENDANGER THE LIFE OF THE FIREFIGHTER, ESPECIALLY IF SPRAYED INTO CONTAINERS OF HOT, BURNING LIQUID. WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE WHEN FIGHTING FIRES, SPECIAL FIRE & EXPLOSION HAZARDS; VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR MAY BE MOVED BY VENTILATION AND IGNITED BY PILOT LIGHTS, OTHER FLAMES, SPARKS, HEATERS, SMOKING, ELECTRIC MOTORS, STATIC DISCHARGE, OR OTHER IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT. NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY, CODES: HEALTH- 2 FLAMMABILITY- 3 REACTIVITY- 2 NFPA CODES: SECTION V-HEALTH HAZARD DATA PERMISSIBLE EXPOSURE LEVEL: NOT ESTABLISHED FOR PRODUCT, SEE SECTION II. EFFECTS OF ACUTE OVEREXPOSURE: FOR COMPONENT EYES - CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION. SKIN - PROLONGED OR REPEATED CONTACT CAN CAUSE MODERATE IRRITATION, DEFATTING, DERMATITIS. BREATHING - EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY HING - EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, POSSIBLE

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	SECTION V-HEALT	H HAZARD DA	TA (CONTINUED)	
SWA	UNCONSCIOUSNESS, AND EVEN ASPHYX Allowing - Can Cause Gastrointestin Aspiration of Material into the Be Fatal.	AL IRRITATI	ON, NAUSEA, VO Ause Chemical	MITING, AND DIARRHEA, PNEUMONITIS WHICH CAN
FIRST AID;				
IF	ON SKIN, THOROUGHLY WASH EXPOSED A CLOTHING, LAUNDER CONTAMINATED			REMOVE CONTAMINATED
IF	IN EYES, FLUSH WITH LARGE AMOUNTS OCCASIONALLY, GET MEDICAL ATTENT		IFTING UPPER A	ND LOWER LIDS
IF	SWALLOWED: DO NOT INDUCE VOMITING, ATTENTION, ASPIRATION OF MATERIA CHEMICAL PNEUMONITIS WHICH CAN B	L INTO THE	N WARM, QUIET, Lungs due to v	AND GET MEDICAL OMITING CAN CAUSE
IF	BREATHED: IF AFFECTED, REMOVE INDI DIFFICULT, ADMINISTER OXYGEN. IF RESPIRATION. KEEP PERSON WARM, Q	BREATHING	HAS STOPPED GI	VE ARTIFICIAL
	IMARY ROUTE(S) OF ENTRY:			
	INHALATION			
	SKIN CONTACT			
EFF	FECTS OF CHRONIC OVEREXPOSURE, FOR	COMPONENT		
OVE	EREXPOSURE TO STYRENE HAS APPARENTL Laboratory animals, liver abnorm	Y BEEN FOUN Alities, Ki	D TO CAUSE THE DNEY DAMAGE AN	FOLLOWING EFFECTS IN DUNG DAMAGE.
	SECTION	VI-REACTIVI		
HAZARDOUS POLYMERIZATION: CAN OCCUR AVOID EXPOSURE TO EXCESSIVE HEAT, PEROXIDES AND POLYMERIZATION CATALYSTS.				
	ABILITY, STABLE			
INC	COMPATIBILITY: STRONG ALKALIES., ST	RONG MINERA	L ACIDS.	
	SECTION VII-S	PILL OR LEA		
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:				
SMALL SPILL, ABSORB LIQUID ON PAPER, VERMICULITE, FLOOR ABSORBENT, OR OTHER ABSORBENT MATERIAL AND TRANSFER TO HOOD.				
LAR	RGE SPILL, ELIMINATE ALL IGNITION S ELECTRICAL SPARKS), PERSONS NOT EXCLUDED FROM AREA OF SPILL UNTI SOURCE, DIKE AREA OF SPILL TO PR REMAINING LIQUID MAY BE TAKEN UP OTHER ABSORBENT MATERIAL AND SHO	OURCES (FLA WEARING PRO L CLEAN-UP EVENT SPREA ON SAND, C	TECTIVE EQUIPM HAS BEEN COMPL DING, PUMP LIG LAY, EARTH, FL	ENT SHOULD BE ETED, STOP SPILL AT RUID TO SALVAGE TANK,
WAS	STE DISPOSAL METHOD:			
SMA	ALL SPILL: DESTROY BY INCINERATION	IN ACCORDAN	CE WITH APPLIC	ABLE REGULATIONS.
LAR	RGE SPILL; DESTROY BY LIQUID INCINE CONTAMINATED ABSORBENT MAY BE DE LOCAL, STATE AND FEDERAL REGULAT	POSITED IN	OFF-GAS SCRUB A LANDFILL IN	BER. ACCORDANCE WITH
	SECTION VIII-PROT	ECTIVE EQUI	PMENT TO BE US	SED
KES	SPIRATORY PROTECTION: IF TLV OF THE NIOSH/MSHA JOINTLY APPROVED AIR PROPER ENVIRONMENTAL CONTROL. OS RESPIRATORS UNDER SPECIFIED COND ENGINEERING OR ADMINISTRATIVE CO EXPOSURE.	SUPPLIED RE Ha regulati Itions. (Se	SPIRATOR IS AD ONS ALSO PERMI E YOUR SAFETY	OVISED IN ABSENCE OF TOTHER NIOSH/MSHA EQUIPMENT SUPPLIER).
VEN	NTILATION, PROVIDE SUFFICIENT MECHA Ventilation to maintain exposure			AL EXHAUST)
PROTECTIVE GLOVES: NEOPRENE, NITRILE RUBBER				
EYE	E PROTECTION, CHEMICAL SPLASH GOGGL ADVISED, HOWEVER, OSHA REGULATIO (CONSULT YOUR SAFETY EQUIPMENT S	NS ALSO PER		
ОТЬ	HER PROTECTIVE EQUIPMENT: NORMAL WO	RK CLOTHING	COVERING ARMS	AND LEGS.
	SECTION IX-SPECIAL	PRECAUTIONS	OR OTHER COMM	IENTS
001	NTAINERS OF THIS MATERIAL MAY BE HA Retain product residues (vapor, Given in the data sheet must be	LIQUID, AND		

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SECTION IX-SPECIAL PRECAUTIONS OR OTHER COMMENTS (CONTINUED)

THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

